



Giga-Joule

Greenville Chapter

November, 2008

<http://www.ashrae4greenville.com/newsletter.php>

Meeting Announcement

The November meeting will be held on Thursday, November 13th at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Programs Chairman, Davin Sandhu, by phone at 864-234-3819 or, email at programs@ashrae4greenville.com

A Message from the President

What a great presentation by Jeffrey Hughes of Desert Aire Corp. speaking on 100% DX-DOAS Control Systems. Technology is growing so fast, it is great to have speakers that are knowledgeable to help explain these new systems. This month, I look forward to Skip Lewis with H2L speaking on mediation and arbitration.



We are going to be using the 5 for 4 meal cards again this year, for every 4 meetings you come to, you will get a free 5th meal. Please see Dorothy when you sign in and ask her about the meal cards. We are going to start something new in January, the rates for the lunches are going to change. If you are a chapter member, the rate will remain the same at \$10. If you are a non-chapter member, the rate will be \$15. There is a box on the ASHRAE renewal form that you need to check to pay the local chapter dues of \$25. If you are not a chapter member, you can join for \$25 and get your lunch for that meeting free. What does the \$25 go to you ask? The chapter has expenses that we have to pay for, i.e. food for Board of Governor's meetings that are held monthly, any honorariums and travel expenses by the speakers and making a donation to the Roper Mountain Science Center for the Science Expo Award that we sponsor. So please join the chapter and help us offset the expenses. Besides, 9 PDH's for \$25 is not a bad deal either.

If anyone is interested in going to Chicago to the national ASHRAE show held Jan. 24-28, 2009, please see me; I have free registration forms. I look forward to seeing all of you next week for our November meeting. If you have any comments or suggestions, please feel free to contact me.

Best regards,

Will Thomason
Greenville ASHRAE President
president@ashrae4greenville.com



Davin Sandhu
Programs Chairman
programs@ashrae4greenville.com

Chapter Programs

This month and next month are Membership Promotion Meetings. Please check out the Membership Corner to see how to receive a FREE LUNCH!!

We have all the dates set for the events. We still need to fill in the last two months. We are working on getting another Distinguished Lecturer lined up for either April or May. The other meeting we are looking into doing a meeting at Thomas Creek including a tour of their refrigeration system. If this does / does not seem like a good idea, please feel free to express your opinions.

Please notice that our February meeting has changed from a Thursday to a Wednesday of the Second Week. This is to cater to our Distinguished Lecturer, Essam Eldin Khalil, Ph.D., that will be coming all the way from Cairo, Egypt. This meeting may also run into a dinner depending on Dr. Khalil's schedule.

The Programs Committee is continually brainstorming for future program ideas. The winter and spring still have some open dates available.

- Has a recent magazine article piqued your curiosity on a new technology or application?
- Do you have a need for specific training?
- Would you like a full or half day seminar on a technical issue?

I would really like to hear your suggestions and extend the offer to join the Programs Committee. Besides proposing meeting subject matter, committee members receive the opportunity to review the suggestions of others and vote on which topics are selected. This is a great way for you to make yourself heard.

Student Activities

Remember that applications for ASHRAE undergraduate Scholarships are due December 1, and applications for senior project and graduate grants are due December 15. For more information, visit <http://www.ashrae.org/students/page/704>.



October Meeting

Program: Arbitration and Mediation

Presenter: L. G. (Skip) Lewis, Jr., P.E., F. NSPE
Founding Principal and Chairman
of H2L Consulting Engineers



In addition to an active engineering practice, Mr. Lewis has provided technical counsel and served as expert witness on numerous cases involving design and construction disputes. As a neutral for the American Arbitration Association, Lewis has also served for more than twenty years as an arbitrator for construction industry claims. He has conducted classes for the American Arbitration Association and is a former member of the AAA Board of Directors. He has provided dispute resolution assistance to owners, contractors, and design professionals involving failures of buildings and systems due to causes such as fire, natural disasters, improper/inadequate design, defective construction and poor maintenance.

Location: Roper Mountain Science Center (www.ropermountain.org)

Date: Thursday, November 13, 2008

Time: 11:30 a.m. Doors Open
11:35 a.m. Lunch Served
11:45 a.m. to 12:00 p.m. Chapter Business
12:00 a.m. to 1:00 p.m. Main Program

Cost: \$10/person (includes a catered lunch) Guests are welcome!
Read about our new lunch packages in the Membership Corner

Education Credit: This program qualifies for 1.0 PDH (including NC PE)

***Please RSVP to programs@ashrae4greenville.com
no later than Noon Tuesday, September 9, 2008***

Membership Corner

EVERYONE ENJOYS A FREE LUNCH...read below and find out how to qualify for FREE LUNCH

The Month of November will be the first of two Membership Promotion Meetings for this year. During these meetings, we offer a FREE LUNCH to all New Members who join us with a completed application. We also offer FREE LUNCH to those Members who bring a guest with a completed ASHRAE Membership form. (NOTE: Forms will be available the day of the meeting or can be obtained by going to www.ASHRAE.org)



Dorothy Bertolini
Membership Chair
membership@ashrae4greenville.com

We are looking forward to meeting potential new members and as always welcome our returning members.

Invite, invite, invite – ASHRAE is open to is open to any person associated with heating, ventilation, air conditioning or refrigeration through such disciplines as indoor air quality and energy conservation. We offer a few different types/grades of Membership – Member, Associate, Affiliate and don't forget Students. To find out more please join us Thursday November 13th – 11:30 @ Roper Mountain Science Center.

For questions and applications, contact me. membership@ashrae4greenville.com or (864) 469-9913

Greenville Chapter offers the following discounts to paid Chapter Members:

Package A: Discount Card

If you are a Society Member in good standing (society dues paid up) and have your Chapter Dues paid up, we will issue you a card at your first meeting of the year. Each time you pay for a meeting this card will be punched/notarized. When you have four (4) meetings paid for, the fifth is free.

Package B: Prepaid Year

If you are a Society Member in good standing (Society Dues Paid Up) and a Chapter Dues (Paid Up), you will be offered the option of paying one charge of \$75 for the entire years programs (\$90 value).

ASHRAE Membership Applications can be obtained at our regular meetings.

Chapter Technology Transfer

Follow-up for DX Outdoor Air Unit Presentation

At the last chapter meeting Jeffrey Hughes discussed several operating scenarios for DX outside air units. Outside air conditions were a key factor in determining whether the unit would heat, cool, or dehumidify. Several of his Powerpoint slides included psychrometric charts indicating operating conditions.

Several years ago H2L purchased software that generates bin data for temperature or humidity, Binmaker Pro. (This is not an endorsement just an indication of my source.) The software includes TMY-2 weather data and can generate bin data combining temperature and specific humidity. The data can be output in a comma delimited file and then imported into a spreadsheet. The resulting table resembles a psychrometric chart. A copy of the table for Greenville is via the link http://www.ashrae4greenville.com/gen_page.php?p_cat=1&pid=8 (I have modified the table so that cells with more than 30 hours are bold, and added lines roughly equal to a 55 dew point and 70 dry bulb.)

According to this data Greenville has 2435 hours per year in the cooling and dehumidify mode, which is above 70 db and dew point greater than 55 as opposed to only 352 hours of cooling only. I added total hours for cooling only, heating only, and heat and dehumidify at the bottom of the table. I also added a category I refer to as temperature neutral and dehumidify, 64-76, with a dew point greater than 55.

Other Professional Meetings:

For those looking for additional PDH's the National Society of Professional Engineers (NSPE) meets on the 2nd Monday of each month at the Hilton Hotel. The meeting is from 11:30 to 1:00 and includes an opportunity to earn 1 PDH. \$20 for members, \$30 for nonmembers.

If you are a member of other professional organizations with meetings that might be of interest to the chapter let me know.

Research Promotion

Thanks to everyone who either showed up to play in the golf tournament or contributed with a sponsorship. We had a great time, and the weather, albeit windy, cooperated for once! Congrats to the winning team of Chip Allison, Jimmy Champion, Rusty Smith and Jim Reece, who shot a 12-under round of 60. Congrats also to the individual winners, long drive champion Dick Latty and the winner of BOTH closest to the pin contests, Jack Brown.

As always, comments, suggestions & recommendations for the spring tournament are welcomed.

Stay tuned for our Donor Recognition meeting coming up- and last but certainly not least, thanks to our Platinum sponsors!

Caviness-Lambert Engineering
James M. Pleasants
Johnson Controls
Trane Company



Devon Cortright PE
Chapter Technology
Transfer Chairman
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Brian Alexy
Research Chairman
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Tentative Event Dates for 2008-2009

Thursday 09/11/2008	Seismic design of pumps	Harry King James M. Pleasants
Thursday 10/09/2008	100% DX-DOAS Control Strategy	Jeffrey Hughes Desert Aire Corp.
Thursday 10/23/2008	Fall Golf Tournament	Verdae
Thursday 11/13/2008	Mediation and Arbitration	Skip Lewis H2L Consulting Engineers
Thursday 12/11/2008	LEED Presentation at QS-1	Lee Chapman, Devita & Assoc. Wade Crow, Wade Crow Engr.
Thursday 01/08/2009	Pressure Independent Control Valves – Why you need them	Chris Edmondson
Wednesday 02/11/2009	Issues for International Collaboration OR Air Flow, Thermal and Humidity Patterns in Ventilated Archaeological Tombs, Valley of the Kings, Luxor	Cairo Distinguished Lecturer (DL) Essam Eldin Khalil, Ph.D
Tuesday 03/10/2008	Joint meeting with Mechanical Contractors Association (MCA)	
Thursday 03/12/2008	Field Erected Cooling Towers	Frank Bowman CCS
Thursday 04/16/2009	TBD	
Wednesday 04/22/2009	Satellite Broadcast: Indoor Air Quality	
Thursday 05/14/2009	TBD	



ASHRAE
Technology for a Better Environment

Region IV
Greenville Chapter